PATENT COOPERATION TREATY

PCT

REC'D 2 7 JUN 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIT WIPO

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(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	T	
P03P7001/PCT	FOR FURTHER ACTION	
International application No. PCT/KR2004/001545	International filing date(day/m	
International Patent Classification (IPC	25 JUNE 2004 (25.06.2	904) 26 JUNE 2003 (26 06 2003)
Applicant LEE, EUI TAI et al 1. This report is the international part Authority under Article 35 and to 2. This REPORT consists of a tota 3. This report is also accompanied a sheets of the description.	reliminary examination report, es ransmitted to the applicant accord of 4 sheets, included by ANNEXES, comprising: and to the International Bureau) a scription, claims and/or drawings notaining rectifications authorized	tablished by this International Preliminary Examining
Supplemental B b. (sent to the Internation containing a sequence	ox. al Bureau only) a total of (indicat listing and/or tables related theret	this Authority considers contain an amendment that goes tion as filed, as indicated in item 4 of Box No. I and the te type and number of electronic carrier(s)) o, in computer readable form only, as indicated in the tion 802 of the Administrative Instructions).
4. This report contains indications Box No. I Basis of the	relating to the following items: e report	
Box No. II Priority		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention		
Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
Box No. VI Certain documents cited		
Box No. VII Certain defects in the international application		
Box No. VIII Certain observations on the international application		
Date of submission of the demand		
or submission of the demand	Date	e of completion of this report
13 DECEMBER 200		15 JUNE 2005 (15.06.2005)
Name and mailing address of the IPEA	/KR Aut	horized officer
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		LEE, CHUNG HO
Facsimile No. 82-42-472-7140	Tele	ephone No. 82-42-481-8160

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No.
PCT/KR2004/001545

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l. With othe	n regard to the language, this report is based on the international application in the language in which it was filed, unless
	and and the state of the state
!!	This report is based on translations from the original language into the following language
	which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b))
	publication of the international analysis (. 1 . B. 1 . a. a.
	publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)
	Light profilming examination (under Rules 55.2 and/or 55.3)
	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not the international application as originally filed/furnished
	the description:
	pages as originally filed/furnished
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	the claims:
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	as amended (together with any statment) and an Add at 100
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Ш	the drawings:
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No. PCT/KR2004/001545

D 37	
DOX NO. A	Reasoned statement under Article 35(2) with regard to persit
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 1-14	YES
	Claims	NO
Inventive step (IS)	Claims 1-14	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-14	YES
	Claims	NO NO

2. Citations and explanations (Rule 70.7)

The following document has been considered for the purpose of this report.

D1: US 5486196 A1 (MEDCHEM PRODUCTS, INC.) 23 January 1996

1. Novelty

Claim 1 of the present invention concerns a suture assisting and maintaining apparatus using the tension of the suture and comprising a loop suture(130) threaded through skin wound, a tightening member(120) for gathering both ends of the threaded loop suture, a pulling member(140) for pulling the loop suture, a housing member(110) for housing the pulling member and making the loop suture tightened and a locking member(150) for fixing a position of the pulling member.

The closest prior art is given by the document D1. This document discloses(cf. Fig. 1-2, 6-9, abstract, column 5 line 25 - column 6 line 11) an apparatus using the mechanical power of a screw for the closure of wide skin defects by stretching skin consisting of a tension bar(82), a large knob(81), a reversible lock(85), and hooks(23) connected to each leg(20).

While the technical feature of claim 1 of the present invention uses the tension of suture for stretching of a wound, the most closest prior art D1 uses the mechanical force of a screw.

Thus, claim 1 is novel under PCT Article 33(2). As a consequence, its dependent claims 2-14 are also novel.

(Continued on Supplemental Sheet)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box No. V

2. Inventive Step

Claim 1 of the present invention is intended to present a wound closure assisting and maintaining apparatus for maintaining the closure of an open wound. The solution according to claim 1 is a loop suture(130) threaded through skin wound, a tightening member(120) for gathering both ends of the threaded loop suture, a pulling member(140) for pulling the loop suture, a housing member(110) for housing the pulling member and making the loop suture tightened and a locking member(150) for fixing a position of the pulling member.

D1 discloses an apparatus for stretching an open wound and the operation mechanism of the invention D1 is performed by mechanical force of a screw. There can be no inference about using a suture to stretch an wound from D1. Since the structure, operation mechanism and the components of the present invention are not disclosed or suggested in the prior art, claim 1 of the present invention is not considered to be obvious to a person skilled in the art with the knowledge of the prior art.

Thus, the invention in claim 1 is inventive under 33(3) PCT. As a consequence, its dependent claims 2-14 are also inventive.

3. Indutrial applicability

There is no reason for forming a negative opinion about the industrial applicability of this application. Consequently, claims 1–14 appear to meet the requirement of PCT Article 33(4).